the sections of this part where we reference it. Anyone may purchase copies of these materials from the Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA 15096 or *www.sae.org*. Table 2 follows:

TABLE 2 OF § 1051.810—SAE MATERIALS

Document number and name	Part 1051 reference
SAE J30, Fuel and Oil Hoses, June 1998	1051.245, 1051.501
nyms, May 1998	1051.135 1051.245

[70 FR 40510, July 13, 2005]

§ 1051.815 What provisions apply to confidential information?

- (a) Clearly show what you consider confidential by marking, circling, bracketing, stamping, or some other method.
- (b) We will store your confidential information as described in 40 CFR part 2. Also, we will disclose it only as specified in 40 CFR part 2. This applies both to any information you send us and to any information we collect from inspections, audits, or other site visits.
- (c) If you send us a second copy without the confidential information, we will assume it contains nothing confidential whenever we need to release information from it.
- (d) If you send us information without claiming it is confidential, we may make it available to the public without further notice to you, as described in 40 CFR 2.204.

[70 FR 40511, July 13, 2005]

§1051.820 How do I request a hearing?

- (a) You may request a hearing under certain circumstances, as described elsewhere in this part. To do this, you must file a written request, including a description of your objection and any supporting data, within 30 days after we make a decision.
- (b) For a hearing you request under the provisions of this part, we will approve your request if we find that your request raises a substantial factual issue.
- (c) If we agree to hold a hearing, we will use the procedures specified in 40 CFR part 1068, subpart G.

[70 FR 40511, July 13, 2005]

PART 1065—ENGINE-TESTING PROCEDURES

Subpart A—Applicability and General Provisions

Sec

1065.1 Applicability.

1065.2 Submitting information to EPA under this part.

1065.5 Overview of this part 1065 and its relationship to the standard-setting part.

1065.10 Other procedures.

1065.12 Approval of alternate procedures.

1065.15 Overview of procedures for laboratory and field testing.

1065.20 Units of measure and overview of calculations.

1065.25 Recordkeeping.

Subpart B—Equipment Specifications

1065.101 Overview.

1065.110 Work inputs and outputs, accessory work, and operator demand.

1065.120 Fuel properties and fuel temperature and pressure.

1065.122 Engine cooling and lubrication.

1065.125 Engine intake air.

1065.127 Exhaust gas recirculation.

1065.130 Engine exhaust.

1065.140 Dilution for gaseous and PM constituents

1065.145 Gaseous and PM probes, transfer lines, and sampling system components.

1065.150 Continuous sampling.

1065.170 Batch sampling for gaseous and PM constituents.

1065.190 PM-stabilization and weighing environments for gravimetric analysis.

1065.195 PM-stabilization environment for in-situ analyzers.

Subpart C—Measurement Instruments

1065.201 Overview and general provisions.

 $1065.202\,$ Data updating, recording, and control.

1065.205 Performance specifications for measurement instruments.

Pt. 1065

MEASUREMENT OF ENGINE PARAMETERS AND AMBIENT CONDITIONS

1065.210 Work input and output sensors. 1065.215 Pressure transducers, temperature sensors, and dewpoint sensors.

FLOW-RELATED MEASUREMENTS

1065.220 Fuel flow meter.

1065.225 Intake-air flow meter.

1065.230 Raw exhaust flow meter.

1065.240 Dilution air and diluted exhaust flow meters.

1065.245 Sample flow meter for batch sampling. 1065.248 Gas divider.

CO AND CO2 MEASUREMENTS

1065.250 Nondispersive infra-red analyzer.

HYDROCARBON MEASUREMENTS

1065.260 Flame ionization detector.

1065.265 Nonmethane cutter.

1065.267 Gas chromatograph.

NO_X MEASUREMENTS

1065.270 Chemiluminescent detector.

1065.272 Nondispersive ultraviolet analyzer.

O_2 MEASUREMENTS

1065.280 Paramagnetic and magnetopneumatic O2 detection analvzers.

AIR-TO-FUEL RATIO MEASUREMENTS

1065.284 Zirconia (ZrO2) analyzer.

PM MEASUREMENTS

1065.290 PM gravimetric balance.

1065.295 PM inertial balance for field-testing analysis.

Subpart D—Calibrations and Verifications

1065.301 Overview and general provisions.

1065.303 Summary of required calibration and verifications

1065.305 Verifications for accuracy, repeatability, and noise.

1065.307 Linearity verification.

1065.308 Continuous gas analyzer system-response and updating-recording verification.

1065.309 Continuous gas analyzer uniform response verification.

MEASUREMENT OF ENGINE PARAMETERS AND Ambient Conditions

1065.310 Torque calibration.

1065.315 Pressure, temperature, and dewpoint calibration.

FLOW-RELATED MEASUREMENTS

1065.320 Fuel-flow calibration.

1065.325 Intake-flow calibration.

40 CFR Ch. I (7-1-08 Edition)

1065.330 Exhaust-flow calibration.

1065.340 Diluted exhaust flow (CVS) calibration.

1065.341 CVS and batch sampler verification (propane check). 1065.342 Sample dryer verification.

1065.345 Vacuum-side leak verification.

CO AND CO2 MEASUREMENTS

1065.350 H₂O interference verification for CO₂ NDIR analyzers.

 CO_2 1065.355 H₂O and interference verification for CO NDIR analyzers.

HYDROCARBON MEASUREMENTS

1065.360 FID optimization and verification.

1065.362 Non-stoichiometric raw exhaust FID O₂ interference verification.

1065.365 Nonmethane cutter penetration fractions

NO_{X} Measurements

1065.370 CLD CO₂ and H₂O auench verification

1065.372 NDUV analyzer HC and H₂O interference verification.

1065.376 Chiller NO_2 penetration.

1065.378 NO₂-to-NO converter conversion verification.

PM MEASUREMENTS

1065.390 PM balance verifications and weighing process verification. 1065.395 Inertial PM balance verifications.

Subpart E—Engine Selection, Preparation, and Maintenance

1065.401 Test engine selection.

1065.405 Test engine preparation and maintenance.

1065.410 Maintenance limits for stabilized test engines.

1065.415 Durability demonstration.

Subpart F—Performing an Emission Test in the Laboratory

1065.501 Overview.

1065.510 Engine mapping.

1065.512 Duty cycle generation.

1065.514 Cycle-validation criteria.

1065.520 Pre-test verification procedures and pre-test data collection.

1065.525 Engine starting, restarting, and shutdown.

1065.530 Emission test sequence.

1065.545 Validation of proportional flow control for batch sampling.

1065.550 Gas analyzer range validation, drift validation, and drift correction.

1065.590 PM sample preconditioning and tare weighing.

1065.595 PM sample post-conditioning and total weighing.

Environmental Protection Agency

Subpart G—Calculations and Data Requirements

1065.601 Overview.

1065.602 Statistics.

1065.610 Duty cycle generation.

1065.630 1980 international gravity formula. 1065.640 Flow meter calibration calcula-

tions.

1065.642 SSV, CFV, and PDP molar flow rate calculations.

1065.644 Vacuum-decay leak rate.

1065.645 Amount of water in an ideal gas.

1065.650 Emission calculations.

1065.655 Chemical balances of fuel, intake air, and exhaust.

1065.659 Removed water correction.

1065.660 THC and NMHC determination.

THCE and NMHCE determination. 1065.665

1065.667 Dilution air background emission correction.

1065.670 NO_X intake-air humidity and temperature corrections.

1065.672 Drift correction.

1065.675 CLD quench verification calculations.

1065.690 Buoyancy correction for PM sample media.

1065.695 Data requirements.

Subpart H-Engine Fluids, Test Fuels, Analytical Gases and Other Calibration Standards

1065.701 General requirements for test fuels.

1065.703 Distillate diesel fuel.

1065.705 Residual and intermediate residual fuel.

1065.710 Gasoline.

1065.715

Natural gas. Liquefied petroleum gas. 1065.720

1065.740 Lubricants.

1065.745 Coolants.

Analytical Gases. 1065.750

1065,790 Mass standards.

Subpart I—Testing with Oxygenated Fuels

1065.801 Applicability.

1065.805 Sampling system.

Response factor determination. 1065.845

1065.850 Calculations.

Subpart J—Field Testing and Portable **Emission Measurement Systems**

1065.901 Applicability.

1065.905 General provisions.

1065.910 PEMS auxiliary equipment for field testing.

1065.915 PEMS instruments.

1065.920 PEMS Calibrations verifications.

1065.925 PEMS preparation for field testing. 1065.930 Engine starting, restarting, and shutdown.

1065.935 Emission test sequence for field testing.

1065.940 Emission calculations.

Subpart K—Definitions and Other **Reference Information**

1065.1001 Definitions.

1065.1005 Symbols, abbreviations, acronyms, and units of measure.

1065.1010 Reference materials.

AUTHORITY: 42 U.S.C. 7401-7671q.

SOURCE: 70 FR 40516, July 13, 2005, unless otherwise noted.

Subpart A—Applicability and **General Provisions**

§ 1065.1 Applicability.

- (a) This part describes the procedures that apply to testing we require for the following engines or for vehicles using the following engines:
- (1) Model year 2010 and later heavyduty highway engines we regulate under 40 CFR part 86. For earlier model years, manufacturers may use the test procedures in this part or those specified in 40 CFR part 86, subpart N, according to § 1065.10.
- (2) Land-based nonroad diesel engines we regulate under 40 CFR part 1039.
- (3) Large nonroad spark-ignition engines we regulate under 40 CFR part
- (4) Vehicles we regulate under 40 CFR part 1051 (such as snowmobiles and offhighway motorcycles) based on engine testing. See 40 CFR part 1051, subpart F, for standards and procedures that are based on vehicle testing.
- (5) Stationary compression-ignition engines certified using the provisions of 40 CFR part 1039, as indicated under 40 CFR part 60, subpart IIII, the standard-setting part for these engines.
- (6) Stationary spark-ignition engines certified using provisions in 40 CFR part 1048, as indicated under 40 CFR part 60, subpart JJJJ, the standard-setting part for these engines.
- (b) The procedures of this part may apply to other types of engines, as described in this part and in the standard-setting part.
- (c) This part is addressed to you as a manufacturer, but it applies equally to anyone who does testing for you.
- (d) Paragraph (a) of this section identifies the parts of the CFR that define

§ 1065.1

emission standards and other requirements for particular types of engines. In this part, we refer to each of these other parts generically as the "standard-setting part." For example, 40 CFR part 1051 is always the standard-setting part for snowmobiles.

- (e) Unless we specify otherwise, the terms "procedures" and "test procedures" in this part include all aspects of engine testing, including the equipment specifications, calibrations, calculations, and other protocols and procedural specifications needed to measure emissions.
- (f) For vehicles subject to this part and regulated under vehicle-based standards, use good engineering judgment to interpret the term "engine" in this part to include vehicles where appropriate.
- (g) For additional information regarding these test procedures, visit our Web site at www.epa.gov, and in particular http://www.epa.gov/otaq/testingregs.htm.

[69 FR 39213, June 29, 2004, as amended at 71 FR 39185, July 11, 2006; 73 FR 3613, Jan. 18, 2008]

EFFECTIVE DATE NOTE: At 73 FR 37288, June 30, 2008, §1065.1 was revised, effective July 7, 2008. For the convenience of the user, the revised text is set forth as follows:

§ 1065.1 Applicability.

- (a) This part describes the procedures that apply to testing we require for the following engines:
- (1) Locomotives we regulate under 40 CFR part 1033. For earlier model years, manufacturers may use the test procedures in this part or those specified in 40 CFR part 92 according to §1065.10.
- (2) Model year 2010 and later heavy-duty highway engines we regulate under 40 CFR part 86. For earlier model years, manufacturers may use the test procedures in this part or those specified in 40 CFR part 86, subpart N, according to §1065.10.
- (3) Nonroad diesel engines we regulate under 40 CFR part 1039 and stationary diesel engines that are certified to the standards in 40 CFR part 1039 as specified in 40 CFR part 60, subpart IIII. For earlier model years, manufacturers may use the test procedures in this part or those specified in 40 CFR part 89 according to §1065.10.
- (4) Marine diesel engines we regulate under 40 CFR part 1042. For earlier model years, manufacturers may use the test procedures

in this part or those specified in 40 CFR part 94 according to §1065.10.

- (5) [Reserved]
- (6) Large nonroad spark-ignition engines we regulate under 40 CFR part 1048, and stationary engines that are certified to the standards in 40 CFR part 1048 or as otherwise specified in 40 CFR part 60, subpart JJJJ.
- (7) Vehicles we regulate under 40 CFR part 1051 (such as snowmobiles and off-highway motorcycles) based on engine testing. See 40 CFR part 1051, subpart F, for standards and procedures that are based on vehicle testing.
- (8) [Reserved]
- (b) The procedures of this part may apply to other types of engines, as described in this part and in the standard-setting part.
- (c) The term "you" means anyone performing testing under this part other than EPA.
- (1) This part is addressed primarily to manufacturers of engines, vehicles, equipment, and vessels, but it applies equally to anyone who does testing under this part for such manufacturers.
- (2) This part applies to any manufacturer or supplier of test equipment, instruments, supplies, or any other goods or services related to the procedures, requirements, recommendations, or options in this part.
- (d) Paragraph (a) of this section identifies the parts of the CFR that define emission standards and other requirements for particular types of engines. In this part, we refer to each of these other parts generically as the "standard-setting part." For example, 40 CFR part 1051 is always the standard-setting part for snowmobiles and part 86 is the standard-setting part for heavy-duty highway engines.
- (e) Unless we specify otherwise, the terms "procedures" and "test procedures" in this part include all aspects of engine testing, including the equipment specifications, calibrations, calculations, and other protocols and procedural specifications needed to measure emissions.
- (f) For vehicles, equipment, or vessels subject to this part and regulated under vehicle-based, equipment-based, or vessel-based standards, use good engineering judgment to interpret the term "engine" in this part to include vehicles, equipment, or vessels, where appropriate.
- (g) For additional information regarding these test procedures, visit our Web site at www.epa.gov, and in particular http://www.epa.gov/otaq/testingregs.htm.